**BRUHAT BANGALORE MAHANAGARA PALIKE**

# MEASUREMENT SHEET

## RA 1ST AND FINAL BILL

Name of work: Construction of RCC Drain and Improvements to Drains from Raghavendra Temple to Vidyaranyapura Main Road, HMT Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Estimated Cost : Rs. 50.00 Lakhs

Head of Account : P-3329

Name of Agency: Sri K. Anil Kumar, No. 84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore - 560 075.

Work order No: BBMP/EE/BTP/WO/210/2018-19 Dated: 10.01.2019.

Measurements Recarded on :

| SL. No | DESCRIPTIONS | NO | Length | Width 1 | width 2 | Average Width | Depth | Quntity | Unit / Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | meters | meters | meters | meters | meters | | | |
| 1 | Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods etc complete as per specifications and directions of engineer in charge of the work | | | | | | | | Cum | |
| | Qty as per Premeasurement Recorded vide E-MB Page No. 1 is | | | | | | | **453.00** | | |
| | Qty upto 125% | | | | | | | **442.81** | 199.36 | **88279.00** |
| | Qty above 125% | | | | | | | **10.19** | 243.88 | **2485.00** |
| 2 | Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. | | | | | | | | Cum | |
| | Qty as per Premeasurement Recorded vide E-MB Page No. 2 is | | | | | | | **84.00** | 5348.76 | **449296.00** |
| 3 | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams | | | | | | | | Cum | |
| | Bottom | | | | | | | | | |
| | BEL 4th Block From 8th Cross to 9th Cross | | | | | | | | | |
| | | 1 | 14.00 | | | 2.50 | 0.15 | 5.25 | | |
| | 9th Cross to Lake | 1 | 30.00 | | | 2.50 | 0.15 | 11.25 | | |
| | | 1 | 30.00 | | | 2.50 | 0.15 | 11.25 | | |
| | | 1 | 30.00 | | | 2.50 | 0.15 | 11.25 | | |
| | | 1 | 32.50 | | | 2.50 | 0.15 | 12.19 | | |
| | CC Drain | | | | | | | | | |
| | 8th Cross E/S BEL 4th Block | 1 | 30.00 | | | 0.90 | 0.15 | 4.05 | | |
| | | 1 | 30.00 | | | 0.90 | 0.15 | 4.05 | | |
| | | 1 | 10.00 | | | 0.90 | 0.15 | 1.35 | | |
| | 8th Cross W/S BEL 4th Block | 1 | 30.00 | | | 0.90 | 0.15 | 4.05 | | |
| | | 1 | 30.00 | | | 0.90 | 0.15 | 4.05 | | |
| | | 1 | 10.00 | | | 0.90 | 0.15 | 1.35 | | |
| | 7th Main 4th Block BEL S/S | 1 | 30.00 | | | 0.90 | 0.15 | 4.05 | | |
| | | 1 | 30.00 | | | 0.90 | 0.15 | 4.05 | | |
| | | 1 | 23.00 | | | 0.90 | 0.15 | 3.11 | | |

| SL. No | DESCRIPTIONS | NO | Length meters | Width 1 meters | width 2 meters | Average Width meters | Depth meters | Quntity | Unit / Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Side Wall | | | | | | | | | |
| | BEL 4th Block From 8th Cross to 9th Cross | | | | | | | | | |
| | | 2 | 14.00 | | | 0.15 | 1.50 | 6.30 | | |
| | 9th Cross to Lake | 2 | 30.00 | | | 0.15 | 1.50 | 13.50 | | |
| | | 2 | 30.00 | | | 0.15 | 1.50 | 13.50 | | |
| | | 2 | 30.00 | | | 0.15 | 1.50 | 13.50 | | |
| | | 2 | 32.50 | | | 0.15 | 1.50 | 14.63 | | |
| | CC Drain | | | | | | | | | |
| | 8th Cross E/S BEL 4th Block | 2 | 30.00 | | | 0.15 | 0.50 | 4.50 | | |
| | | 2 | 30.00 | | | 0.15 | 0.50 | 4.50 | | |
| | | 2 | 10.00 | | | 0.15 | 0.50 | 1.50 | | |
| | 8th Cross W/S BEL 4th Block | 2 | 30.00 | | | 0.15 | 0.50 | 4.50 | | |
| | | 2 | 30.00 | | | 0.15 | 0.50 | 4.50 | | |
| | | 2 | 10.00 | | | 0.15 | 0.50 | 1.50 | | |
| | 7th Main 4th Block BEL S/S | 2 | 30.00 | | | 0.15 | 0.50 | 4.50 | | |
| | | 2 | 30.00 | | | 0.15 | 0.50 | 4.50 | | |
| | | 2 | 23.00 | | | 0.15 | 0.50 | 3.45 | | |
| | | | | | | | **Total Qty =** | **176.17** | | |
| | | | | | | | **Qty Limited to =** | **171.90** | 6231.74 | **1071236.00** |
| 4 | Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bars FE 500 | | | | | | | | Tonne | |
| | Qty as per Premeasurement Recorded vide E-MB Page No. 2 is | | | | | | | **7.29** | | |
| | Qty upto 125% | | | | | | | **4.00** | 64243.42 | **256974.00** |
| | Qty above 125% | | | | | | | **3.29** | 75223.96 | **247487.00** |
| 5 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. | | | | | | | | Sqm | |
| | Qty as per Premeasurement Recorded vide E-MB Page No. 3 is | | | | | | | **456.00** | | |
| | Qty upto 125% | | | | | | | **300.00** | 250.00 | **75000.00** |
| | Qty above 125% | | | | | | | **156.00** | 471.43 | **73543.00** |
| 6 | Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate | | | | | | | | Sqm | |
| | Covering Slab | | | | | | | | | |
| | BEL 4th Block From 8th Cross to | | | | | | | | | |
| | | 1 | 14.00 | | | 2.50 | | 35.00 | | |
| | 9th Cross to Lake | 1 | 30.00 | | | 2.50 | | 75.00 | | |
| | | 1 | 30.00 | | | 2.50 | | 75.00 | | |
| | | 1 | 30.00 | | | 2.50 | | 75.00 | | |
| | | 1 | 32.50 | | | 2.50 | | 81.25 | | |
| | | | | | | | **Total Qty =** | **341.25** | | |
| | | | | | | | **Qty Limited to =** | **336.00** | 3900.00 | **1310400.00** |
| | **EIRL** | | | | | | | | | |
| E1 | Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate | | | | | | | | Sqm | |
| | Covering Slab | | | | | | | | | |
| | 8th Cross E/S BEL 4th Block | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 30.00 | | | 0.90 | | 27.00 | | |

| SL. No | DESCRIPTIONS | NO | Length | Width 1 | width 2 | Average Width | Depth | Quntity | Unit / Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | meters | meters | meters | meters | meters | | | |
| | | 1 | 10.00 | | | 0.90 | | 9.00 | | |
| | 8th Cross W/S BEL 4th Block | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 10.00 | | | 0.90 | | 9.00 | | |
| | 7th Main 4th Block BEL S/S | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 23.00 | | | 0.90 | | 20.70 | | |
| | Cross Road | | | | | | | | | |
| | | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 25.00 | | | 0.90 | | 22.50 | | |
| | | 1 | 30.00 | | | 0.90 | | 27.00 | | |
| | | 1 | 14.00 | | | 0.90 | | 12.60 | | |
| | | | | | | | Total Qty = | 316.80 | | |
| | | | | | | | Qty Limited to = | 315.90 | 1984.00 | 626746.00 |
| | | | | | | | Total | | = | 4201446.00 |

Rupees Forty Two Lakh(s) One Thousand Four Hundred Forty Six Only

Assistant Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97